

CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1-6. (Cancelled)

7. **(Currently Amended)** In a system for programming a respirator for ventilating a patient, the system including a programmable controller responsive to selected ventilation parameters for controlling the respirator to ventilate the patient and for storing a plurality of ventilation parameters, a display for displaying a plurality of implemented ventilation parameters currently used by the controller to control the respirator and a plurality of proposed but not implemented ventilation parameters, and an input system cooperating with the controller and the display for selecting one of the proposed but not implemented ventilation parameters from the plurality of proposed but not implemented ventilation parameters, the improvement comprising:

 said display including a graphical representation of the effect of the proposed but not implemented ventilation parameters on a breath cycle having a duration;

 wherein said graphical representation includes a time scale associated with the breath cycle, an inspiration bar having a length corresponding to a proposed inspiration time, an expiration bar having a length corresponding to a proposed expiration time, a first numerical indicator indicating the proposed inspiration time, a second numerical indicator indicating the proposed inspiration expiration time, and a third numerical indicator indicating the duration of the complete breath cycle, wherein at least the first and second numerical indicators are separate from the time scale.

8. **(Previously Presented)** The system of Claim 7, wherein said display includes a graphical representation of the implemented ventilation parameters currently used.

9. (Previously Presented) The system of Claim 7, wherein said display includes a graphical representation of the proposed but not implemented ventilation parameters of a breath cycle.

10. (Previously Presented) The system of Claim 7, wherein the lengths of the inspiration bar and the expiration bar are a function of the ventilator parameters used by the controller to control the ventilator.

11. (Previously Presented) The system of Claim 7, wherein:
the input system includes one or more input devices for assigning values to the selected proposed but not implemented ventilation parameters; and
the lengths of the inspiration bar and the expiration bar are a function of the assigned values of the proposed but not implemented ventilator parameters.

12. (Previously Presented) The system of Claim 10, wherein the scale of the time scale is associated with the inspiration and expiration bar and is automatically adjusted to be compatible with the combination of the inspiration and expiration times.

13. (Previously Presented) The system of Claim 11, wherein the scale of the time scale associated with the inspiration and expiration bar is automatically adjusted to be compatible with the combinations of the inspiration and expiration times.

14. (Currently Amended) A respirator system, comprising:

a programmable controller operable to control a respirator to ventilate a patient based at least on one or more implemented ventilation parameters;

a display operable to display a graphical representation of the effect of one or more proposed but not implemented ventilation parameters on a breath cycle having a duration, the graphical representation including a time scale associated with the breath cycle, an inspiration bar having a length corresponding to a proposed inspiration time, an expiration bar having a length corresponding to a proposed expiration time, a first numerical indicator indicating the proposed inspiration time, a second numerical indicator indicating the proposed inspiration expiration time, and a third numerical indicator indicating the duration of the complete breath cycle, wherein at least the first and second numerical indicators are separate from the time scale; and

an input system configured to cooperate with the controller and the display to allow a user to select one or more of the proposed but not implemented ventilation parameters.

15. (Original) The system of Claim 14, wherein the display is further operable to display, simultaneous with the graphical representation of the effect of one or more proposed but not implemented ventilation parameters on a breath cycle, a graphical representation of one or more implemented ventilation parameters currently used by the controller.

16. (Original) The system of Claim 14, wherein the display is further operable to display, simultaneous with the graphical representation of the effect of one or more proposed but not implemented ventilation parameters on a breath cycle, a graphical representation of one or more proposed but not implemented ventilation parameters.

17. (Original) The system of Claim 14, wherein the input system is configured to allow a user to select values for one or more of the proposed but not implemented ventilation parameters.

18. (Original) The system of Claim 17, wherein the lengths of the inspiration bar and the expiration bar are a function of values of the proposed inspiration and expiration times selected by the user via the input system.

19. (Original) The system of Claim 17, wherein the scale of the time scale is automatically adjusted based on values for the inspiration and expiration times selected by the user via the input system.

20. (**Currently Amended**) Computer instructions embodied in computer-readable media coupled to a processor and when executed by the processor, operable to:

control a respirator to ventilate a patient based at least on settings for one or more implemented ventilation parameters selected by a user;

display a graphical representation of the effect of one or more proposed but not implemented ventilation parameters on a breath cycle having a duration, the graphical representation including a time scale associated with the breath cycle, an inspiration bar having a length corresponding to a proposed inspiration time, an expiration bar having a length corresponding to a proposed expiration time, a first numerical indicator indicating the proposed inspiration time, a second numerical indicator indicating the proposed inspiration expiration time, and a third numerical indicator indicating the duration of the complete breath cycle, wherein at least the first and second numerical indicators are separate from the time scale; and

provide an input interface allowing a user to select one or more of the proposed but not implemented ventilation parameters.

21. (Original) The computer instructions of Claim 20, further operable to display, simultaneous with the graphical representation of the effect of one or more proposed but not implemented ventilation parameters on a breath cycle, a graphical representation of one or more implemented ventilation parameters currently used by the controller.

22. (Original) The computer instructions of Claim 20, further operable to display, simultaneous with the graphical representation of the effect of one or more proposed but not implemented ventilation parameters on a breath cycle, a graphical representation of one or more proposed but not implemented ventilation parameters.

23. (Original) The computer instructions of Claim 20, wherein the input interface allows a user to select values for one or more of the proposed but not implemented ventilation parameters.

24. (Original) The computer instructions of Claim 23, wherein the lengths of the inspiration bar and the expiration bar are a function of values of the proposed inspiration and expiration times selected by the user via the input interface.

25. (Original) The computer instructions of Claim 23, wherein the scale of the time scale is automatically adjusted based on values for the inspiration and expiration times selected by the user via the input interface.